

TECHNICAL DATA

HD-830

FAST SET FLEXIBLE JOINT SEALANT 300ml x 300ml dual cartridge system

PRODUCT DESCRIPTION:

The HD-830 dual cartridge system consists of a two component 100% solids polymer designed for applications where a resilient joint material is needed. The material is a semi-clear unpigmented product packaged in a 300ml x 300ml dual cartridge system with a ½" 30 element static mixing nozzle, and retainer nut.

RECOMMENDED FOR:

Concrete/cement expansion joints in general industry

SOLIDS BY WEIGHT:

100%

VOLATILE ORGANIC CONTENT:

zero pounds per gallon

STANDARD COLORS:

Semi-transparent clear unpigmented

RECOMMENDED THICKNESS:

½" to 1 ½"

COVERAGE PER UNIT:

A tube set is 600ml (approximately 0.1558 gallons)

Six tube sets is approximately 0.935 gallons

(Approximate coverage rate for 1 tube set @ ½" wide by ½" deep would be 11 to 12 feet)

PACKAGING

300ml x 300ml

CUBIC INCHES

36 (approx.)

Packaged as a dual cartridge system with two 300ml cartridges per set. Sold in packages of six sets per box.

MIX RATIO:

The mix ratio is 1:1 by volume

SHELF LIFE:

6 months in unopened containers properly stored at normal room temperatures.

SHORE D HARDNESS:

40-45

TENSILE STRENGTH:

1,984 psi

ELONGATION:

100%

IMPACT RESISTANCE:

excellent

ABRASION RESISTANCE:

18.2 mg loss with a 1000 gram total load at 1000 revolutions with a CS17 wheel

COMPRESSIVE STRENGTH:

2,300 psi

ADHESION:

410 psi (elcometer) – concrete failure

DOT CLASSIFICATION:

"not regulated"

VISCOSITY:

1,200cps – 1,400cps typical

CURE SCHEDULE:

pot life (150 gram mass)1-2 minutes @ 70⁰ F
recoat or topcoat.....1 hour @ 70 degrees F
light foot traffic.....1-3 hours @ 70 degrees F
(heavy traffic)...3-5 days @ 70 degrees F

APPLICATION TEMPERATURE:

40-90 degrees F (lower temperatures will require additional cure time)

PRIMER:

None Required

TOPCOAT:

None required. However, many types of products can be used as coatings or overlays for the area that has been patched..

LIMITATIONS:

- * DO NOT POINT TUBES UPWARD AFTER THE MIXING NOZZLE HAS BEEN ATTACHED AND PRODUCT HAS BEEN DISPENSED AS THIS MAY CAUSE MATERIAL TO FLOW BACK INTO THE TUBES AND CAUSE CLOGGING OR GELATION.
- * Because of the quick cure time for this product, it is best to work with one small area at a time. If the material is allowed to stand for more than 1 minutes after initial use, then the material in the static mixing nozzle will partially cure. If the material in the mixing nozzle is allowed to cure, then the nozzle must be removed and a new nozzle attached. The material in the individual tubes are unaffected by the curing of the product in the nozzle.
- * Color stability may be affected by environmental conditions such as high humidity or chemical exposure.
- * Product may discolor if exposed to certain types of light such as sodium vapor lighting. Product is not UV color stable.
- * Color may vary slightly from tube set to tube set.
- * Color of material applied in a joint may exhibit some cloudiness in some areas and more clarity in others.
- * Substrate temperature must be 5⁰ F above dew point.
- * All new concrete must be cured for at least 30 days prior to application.
- * When applying material in cold areas, make sure the surface is clean and dry. Also, it is best to keep the material at normal room temperature.
- * Always apply a test area and become familiar with the amount of time available before the product begins to cure as well as to evaluate the suitability for the product in the area where the product is to be used.
- * See reverse side for application instructions.
- * Physical properties are typical values and not specifications.
- * See reverse side for limitations of our liability and warranty.

INSTRUCTIONS (HD830 300ml x 300ml tube sets)

- 1) **PRODUCT STORAGE:** Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be above 55⁰ F to prevent product crystallization.
- 2) **SURFACE PREPARATION:** All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. We recommend that all loose concrete, previous joint compound or other foreign material be removed to leave a clean sound joint at least 1/2" deep. For best results, edges should be sawcut and a backer rod should be placed into the joint. At a minimum, the joint depth should be at least 1/2 the joint width from the top of the backer rod to the top of the joint with a minimum of 1/2".
- 3) **PRIMER:** No primer is necessary. This material is self priming. However, any suitable primer can be used.
- 4) **PRODUCT MIXING:** It is important that the material be mixed (shaken) before using. This product has a very short pot life of 1-2 minutes and should be applied continuously once opened to prevent the tip from becoming clogged using a 1/2" diameter 30 element tip. The product is packaged in a closed end dual cartridge and the closed end tip can be removed with a screwdriver prior to applying the static mixing tip and retainer nut. ALWAYS dispense a small beginning portion onto cardboard to prevent non-mixed material from entering joint. Improper mixing may result in product failure.



To assemble, hold tubes with tip facing upward. First, remove the closed end on the cartridge system with a screwdriver. Next, place the static mix nozzle over the tube set ends. Finally, slip the screw collar over the tip and tighten on the tube set and then place the tube set into the tube applicator. Do not allow material to mix prior to dispensing as it will cure within 1-2 minutes.

- 5) **PRODUCT APPLICATION:** Discard the unmixed portion of mixed material at the start of each application. This product has a very short pot life of 1-2 minutes and should be applied with a dual cartridge caulking gun using the 1/2" diameter 30 element tip. Apply the mixed product by pumping the mixed material in a continuous motion into the expansion joint to be repaired. Remove any excess material with a razor scraper or similar tool after the material has set up enough to cut through with the razor scraping toll. Maintain temperatures within the recommended ranges during the application and curing process. When temperatures are lower, allow more time for this material to cure.
- 6) **RECOAT OR TOPCOATING:** No recoating or topcoating is necessary. However, if you opt to topcoat the applied joint compound, allow it to cure before topcoating. It is not necessary to prime over the joint compound prior to topcoating the joint compound. Many epoxies and urethanes can be used. In some instances, especially when excessive expansion joint movement is involved, topcoats may chip or crack. However, most epoxy or topcoat products will adhere to the joint compound very well. It is recommended to apply a test area with the system to be applied before undertaking the entire project.
- 7) **CLEANUP:** Use xylol.
- 8) **FLOOR CLEANING:** Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with a product and process tested.
- 9) **RESTRICTIONS:** Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle.

NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Listed physical properties are typical and should not be construed as specifications. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT. We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.